

10/028,827

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NEWS 12 SEP 14 STN Patent Forum to be held October 13, 2004, in Iselin, NJ  
NEWS 13 SEP 27 STANDARDS will no longer be available on STN  
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NEWS 15 SEP 30 STN downtime scheduled October 2-3, 2004  
  
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=> s (fluoroalkanol or fluoroalcohol or fluorine (3a) alcohol) and (perfluoroolefin or tetrafluoroethylene) and (initiator or perox?) and (alcohol or methanol)

14 FILES SEARCHED...

34 FILES SEARCHED...

48 FILES SEARCHED...

53 FILES SEARCHED...

60 FILES SEARCHED...

65 FILES SEARCHED...

74 FILES SEARCHED...

L1 219 (FLUOROALKANOL OR FLUOROALCOHOL OR FLUORINE (3A) ALCOHOL) AND  
(PERFLUOROOLEFIN OR TETRAFLUOROETHYLENE) AND (INITIATOR OR PEROX  
?) AND (ALCOHOL OR METHANOL)

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L2 192 DUP REM L1 (27 DUPLICATES REMOVED)

=> d 1-192 ti

L2 ANSWER 1 OF 192 USPATFULL on STN DUPLICATE 1  
TI FLUORINATED TREATMENT FOR SOIL RESISTANCE

L2 ANSWER 2 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN NOVEL FLUOROPOLYMER, RESIST COMPOSITIONS CONTAINING THE SAME, AND NOVEL  
FLUROMONOMERS.

L2 ANSWER 3 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN PROCESS FOR PRODUCTION OF FLUORINE-CONTAINING NORBORNENE DERIVATIVES.

L2 ANSWER 4 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN METHOD FOR FORMING FINE PATTERN.

L2 ANSWER 5 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Magnetic carrier, two-component developer and image forming method.  
TIEN Magnetic carrier, two-component developer and image forming method.

L2 ANSWER 6 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN  
TI PROCESS FOR PRODUCING A FLUOROALKANOL

L2 ANSWER 7 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN PHOTORESIST COMPOSITION FOR DEEP ULTRAVIOLET LITHOGRAPHY  
TIFR COMPOSITION DE PHOTORESINE POUR LITHOGRAPHIE A ULTRAVIOLET PROFOND

L2 ANSWER 8 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN REACTION OF FLUOROPOLYMER MELTS  
TIFR REACTION DE MELANGES FONDUS DE FLUOROPOLYMERES

L2 ANSWER 9 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN FLUORINE-CONTAINING VINYL ETHERS, THEIR POLYMERS, AND RESIST  
COMPOSITIONS USING SUCH POLYMERS  
TIFR ETHERS DE VINYLE CONTENANT DU FLUOR, POLYMERES DE CEUX-CI ET  
COMPOSITIONS DE RESINE UTILISANT CES POLYMERES

L2 ANSWER 10 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN PHOTORESISTS, FLUOROPOLYMERS AND PROCESSES FOR 157 NM MICROLITHOGRAPHY

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TIFR RESINES PHOTSENSIBLES, FLUOROPOLYMERES ET PROCEDES DES  
MICROLITHOGRAPHIE A 157 NM

L2 ANSWER 11 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN FLUORINATED POLYMERS USEFUL AS PHOTORESISTS, AND PROCESSES FOR  
MICROLITHOGRAPHY

TIFR POLYMERES FLUORES UTILES EN TANT QUE PHOTORESINES, ET PROCEDES DE  
MICROLITHOGRAPHIE

L2 ANSWER 12 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN FLUORINATED POLYMERS HAVING POLYCYCLIC GROUPS WITH FUSED 4-MEMBERED  
CARBOCYCLIC RINGS, USEFUL AS PHOTORESISTS, AND PROCESSES FOR  
MICROLITHOGRAPHY

TIFR POLYMERES FLUORES COMPRENANT DES GROUPES POLYCYCLIQUES COMPORTANT DES  
NOYAUX CARBOCYCLIQUES CONDENSES A 4 ELEMENTS, UTILISABLES EN TANT QUE  
RESINES PHOTSENSIBLES ET PROCEDES DE MICROLITHOGRAPHIE

L2 ANSWER 13 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN FLUORINATED MONOMERS, FLUORINATED POLYMERS HAVING POLYCYCLIC GROUPS WITH  
FUSED 4-MEMBERED HETEROCYCLIC RINGS, USEFUL AS PHOTORESISTS, AND  
PROCESSES FOR MICROLITHOGRAPHY

TIFR MONOMERES FLUORES, POLYMERES FLUORES COMPRENANT DES GROUPES  
POLYCYCLIQUES POSSEDANT DES NOYAUX HETEROCYCLIQUES CONDENSES A 4  
ELEMENTS, SERVANT DE PHOTORESINES, ET PROCEDES DE MICROLITHOGRAPHIE

L2 ANSWER 14 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN FLUORINATED TREATMENT FOR SOIL RESISTANCE

TIFR TRAITEMENT DE FLUORATION ANTISALISSURE

L2 ANSWER 15 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN CARPETS TREATED FOR SOIL RESISTANCE

TIFR TAPIS TRAITES POUR RESISTER AUX SALISSURES

L2 ANSWER 16 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN FLUORINATED POLYMERS, PHOTORESISTS AND PROCESSES FOR MICROLITHOGRAPHY

TIFR POLYMERES FLUORES, RESINES PHOTSENSIBLES ET PROCEDES DE  
MICROLITHOGRAPHIE

L2 ANSWER 17 OF 192 USPATFULL on STN  
TI Fluorine-containing compounds, fluorine-containing polymerizable  
monomers, fluorine-containing polymers, dissolution inhibitors, and  
resist compositions

L2 ANSWER 18 OF 192 USPATFULL on STN  
TI Novel fluorine-containing polymer, resist composition prepared from same  
and novel fluorine-containing monomer

L2 ANSWER 19 OF 192 USPATFULL on STN  
TI Thermally stable perfluoropolyethers and processes therefor and  
therewith

L2 ANSWER 20 OF 192 USPATFULL on STN  
TI Toner, method of making, method of using

L2 ANSWER 21 OF 192 USPATFULL on STN  
TI Fluorinated polymers having ester groups and photoresists for  
microlithography

L2 ANSWER 22 OF 192 USPATFULL on STN  
TI Photoresist composition for deep ultraviolet lithography

L2 ANSWER 23 OF 192 USPATFULL on STN

10/028,827

TI      Photoresist composition for deep ultraviolet lithography

L2      ANSWER 24 OF 192    USPATFULL on STN  
TI      Use of partially fluotinated polymers in applications requiring  
         transparency in the ultraviolet and vacuum ultraviolet

L2      ANSWER 25 OF 192    USPATFULL on STN  
TI      Polymers blends and their use in photoresist compositions for  
         microlithography

L2      ANSWER 26 OF 192    USPATFULL on STN  
TI      Reaction of fluoropolymer melts

L2      ANSWER 27 OF 192    USPATFULL on STN  
TI      Photoresists with hydroxylated, photoacid-cleavable groups

L2      ANSWER 28 OF 192    USPATFULL on STN  
TI      Fluorine-containing allyl ether compounds, their copolymers, and resist  
         compositions and anti-reflection film materials using such copolymers

L2      ANSWER 29 OF 192    USPATFULL on STN  
TI      Fluorine-containing compounds and their polymers useful for  
         anti-reflection film materials and resist compositions

L2      ANSWER 30 OF 192    USPATFULL on STN  
TI      Enzyme electrode and process for manufacturing the same

L2      ANSWER 31 OF 192    USPATFULL on STN  
TI      Polycyclic fluorine-containing polymers and photoresists for  
         microlithography

L2      ANSWER 32 OF 192    USPATFULL on STN  
TI      Reaction of fluoropolymer melts

L2      ANSWER 33 OF 192    USPATFULL on STN  
TI      Multilayer elements containing photoresist compositions and their use in  
         microlithography

L2      ANSWER 34 OF 192    USPATFULL on STN  
TI      Protecting groups in polymers, photoresists and processes for  
         microlithography

L2      ANSWER 35 OF 192    USPATFULL on STN  
TI      Curable fluoropolymer, curable resin composition containing the same,  
         and antireflection film

L2      ANSWER 36 OF 192    USPATFULL on STN  
TI      Carpets treated for soil resistance

L2      ANSWER 37 OF 192    USPATFULL on STN  
TI      Antireflective layer for use in microlithography

L2      ANSWER 38 OF 192    USPATFULL on STN  
TI      Anti-reflection film, polarizing plate comprising the same, and image  
         display device using the anti-reflection film or the polarizing plate

L2      ANSWER 39 OF 192    USPATFULL on STN  
TI      Fluorinated polymers, photoresists and processes for microlithography

L2      ANSWER 40 OF 192    USPATFULL on STN  
TI      Functional trifluorovinyl monomers and their copolymerisation with  
         fluorinated olefins



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L2 ANSWER 41 OF 192 USPATFULL on STN  
TI High lubricity, multi-layer polyolefin laminate

L2 ANSWER 42 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 2  
TI COPOLYMERS FOR PHOTORESISTS AND PROCESSES THEREFOR

L2 ANSWER 43 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 3  
TI MONOHYDRIC POLYFLUOROOXETANE OLIGOMERS, POLYMERS, AND COPOLYMERS AND COATINGS CONTAINING THE SAME

L2 ANSWER 44 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 4  
TI MONOHYDRIC POLYFLUOROOXETANE OLIGOMERS, POLYMERS, AND COPOLYMERS AND COATING CONTAINING THE SAME; FOR USE AS RADIATION CURABLE OR THERMAL CURABLE COATING

L2 ANSWER 45 OF 192 USPATFULL on STN DUPLICATE 5  
TI Fluorine-containing copolymer, composition for forming a film, anti-reflection film, and image display device

L2 ANSWER 46 OF 192 USPATFULL on STN DUPLICATE 6  
TI Fluorine-containing polymerisable monomer and polymer prepared by using same

L2 ANSWER 47 OF 192 USPATFULL on STN DUPLICATE 7  
TI Optical waveguide

L2 ANSWER 48 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN CURABLE FLUOROPOLYMER, CURABLE RESIN COMPOSITION CONTAINING THE SAME, AND ANTIREFLECTION FILM.

L2 ANSWER 49 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN PROCESS FOR PRODUCING FLUOROALKANOL.

L2 ANSWER 50 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN PROCESS FOR PRODUCING FLUORINATED ALCOHOL.

L2 ANSWER 51 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN LAYERED PRODUCT OF OLEFIN FOAM AND USE.

L2 ANSWER 52 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Fluorine-containing diene, its production method and its polymer.  
TIEN Fluorine-containing diene, its production method and its polymer.

L2 ANSWER 53 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Optical waveguide.  
TIEN Optical waveguide.

L2 ANSWER 54 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Fluorine-containing polymer composition.  
TIEN Fluorine-containing polymer composition.

L2 ANSWER 55 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN COATINGS CONTAINING FLUORINATED ESTERS.

L2 ANSWER 56 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Toner, two-component developer and image forming method.  
TIEN Toner, two-component developer and image forming method.

L2 ANSWER 57 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Image forming method and image forming apparatus.  
TIEN Image forming method and use of a specific developer in an image forming

apparatus.

- L2 ANSWER 58 OF 192 INPADOC COPYRIGHT 2004 EPO on STN  
 TI METHOD OF SYNTHESIS OF FLUOROALCOHOL, COMPOSITE COMPRISING  
 FLUOROALCOHOL, ITS APPLICATION AS DYE SOLVENT, OPTICAL DISK WITH  
 RECORDING LAYER BASED ON FLUOROALCOHOL.
- L2 ANSWER 59 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
 TIEN POLYMER HAVING CHARGED UNITS  
 TIFR POLYMERES RENFERMANT DES UNITES CHARGEES
- L2 ANSWER 60 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
 TIEN HIGH REFRACTION FILM, HIGH REFRACTION FILM-FORMING COATING COMPOSITION,  
 ANTI-REFLECTION FILM, PROTECTIVE FILM FOR POLARIZING PLATE, POLARIZING  
 PLATE AND IMAGE DISPLAY DEVICE  
 TIFR FILM A FORTE REFRACTION, COMPOSITION DE REVETEMENT FORMANT UN FILM A  
 FORTE REFRACTION, FILM ANTI-REFLEXION, FILM PROTECTEUR POUR PLAQUE DE  
 POLARISATION, PLAQUE DE POLARISATION ET DISPOSITIF D'AFFICHAGE D'IMAGES
- L2 ANSWER 61 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
 TIEN FLUORINATED COPOLYMERS FOR MICROLITHOGRAPHY  
 TIFR COPOLYMERES FLUORES POUR LA MICROLITHOGRAPHIE
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 TIEN OXETANE BLOCK-CONTAINING COPOLYMERS  
 TIFR COPOLYMERES CONTENANT UN BLOC OXETANE
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 TIEN FLUORINATED POLYMERS HAVING ESTER GROUPS AND PHOTORESISTS FOR  
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 TIFR POLYMERES FLUORES AYANT DES GROUPES ESTER ET PHOTORESINES POUR  
 MICROLITHOGRAVURE
- L2 ANSWER 64 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
 TIEN LEVELLING AGENT AND ANTI-CRATERING AGENT  
 TIFR AGENT EGALISANT ET ANTI-FORMATION DE CRATERES
- L2 ANSWER 65 OF 192 USPATFULL on STN  
 TI High molecular compound, monomer compounds and photosensitive  
 composition for photoresist, pattern forming method utilizing  
 photosensitive composition, and method of manufacturing electronic  
 components
- L2 ANSWER 66 OF 192 USPATFULL on STN  
 TI Fluorine-containing polymerizable monomers and polymers, anti-reflection  
 film materials and resist compositions using same
- L2 ANSWER 67 OF 192 USPATFULL on STN  
 TI Anti-reflection film and image display device
- L2 ANSWER 68 OF 192 USPATFULL on STN  
 TI Stable dispersion concentrates
- L2 ANSWER 69 OF 192 USPATFULL on STN  
 TI Anti-reflection film, polarizing plate comprising the same, and image  
 display device using the anti-reflection film or the polarizing plate
- L2 ANSWER 70 OF 192 USPATFULL on STN  
 TI Polymeric blocks of an oxetane oligomer, polymer or copolymer,  
 containing ether side chains terminated by fluorinated aliphatic groups,  
 and hydrocarbon polymers or copolymers

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L2	ANSWER 71 OF 192	USPATFULL on STN	
TI	Process for producing a fluoroalkanol		
L2	ANSWER 72 OF 192	USPATFULL on STN	
TI	Process for producing a fluorinated alcohol		
L2	ANSWER 73 OF 192	USPATFULL on STN	
TI	Method for removing a sacrificial material with a compressed fluid		
L2	ANSWER 74 OF 192	USPATFULL on STN	
TI	Thermally stable perfluoropolyethers and processes therefor and therewith		
L2	ANSWER 75 OF 192	USPATFULL on STN	
TI	Endoscope		
L2	ANSWER 76 OF 192	USPATFULL on STN	
TI	Perfluoroalkyl haloalkyl ethers and compositions and applications thereof		
L2	ANSWER 77 OF 192	USPATFULL on STN	
TI	Nitrile/fluoroalcohol-containing photoresists and associated processes for microlithography		
L2	ANSWER 78 OF 192	CAPLUS COPYRIGHT 2004 ACS on STN	DUPLICATE 8
TI	Process for producing fluoroalcohol		
L2	ANSWER 79 OF 192	CAPLUS COPYRIGHT 2004 ACS on STN	DUPLICATE 9
TI	Preparation of fluoroalkanols by telomerization		
L2	ANSWER 80 OF 192	IFIPAT COPYRIGHT 2004 IFI on STN	DUPLICATE 10
TI	PROCESS FOR PRODUCING A FLUOROALKANOL; REACTING ALKANOL WITH A PERFLUOROOLEFIN IN PRESENCE OF RADICAL INITIATOR TO PRODUCE FLUOROALKANOL		
L2	ANSWER 81 OF 192	IFIPAT COPYRIGHT 2004 IFI on STN	DUPLICATE 11
TI	PROCESS FOR PRODUCTION OF FLUOROALCOHOL; REACTING METHANOL WITH TETRAFLUOROETHYLENE OR HEXAFLUOROPROPYLENE		
L2	ANSWER 82 OF 192	USPATFULL on STN	DUPLICATE 12
TI	Fluorine-containing diene, its production method and its polymer		
L2	ANSWER 83 OF 192	USPATFULL on STN	DUPLICATE 13
TI	Fluoromonomer polymerization		
L2	ANSWER 84 OF 192	USPATFULL on STN	DUPLICATE 14
TI	Micro-electromechanical system		
L2	ANSWER 85 OF 192	CAPLUS COPYRIGHT 2004 ACS on STN	
TI	Process for producing fluoroalkanol		
L2	ANSWER 86 OF 192	EUROPATFULL COPYRIGHT 2004 WILA on STN	
TIEN	PROCESS FOR PRODUCING FLUOROALKANOL.		
L2	ANSWER 87 OF 192	EUROPATFULL COPYRIGHT 2004 WILA on STN	
TIEN	Process for production of fluoroalcohol.		
L2	ANSWER 88 OF 192	EUROPATFULL COPYRIGHT 2004 WILA on STN	
TIEN	PROTECTIVE FILMS AND COATINGS.		
L2	ANSWER 89 OF 192	EUROPATFULL COPYRIGHT 2004 WILA on STN	

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TIEN Process for production of fluoroalcohol and its use for the  
manufacture of an information recording medium.

TIEN Process for production of fluoroalcohol and its use for the  
manufacture of an information recording medium.

L2 ANSWER 90 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN FLUORINATED TRIALLYL ISOCYANURATES, VULCANIZABLE ELASTOMER COMPOSITIONS  
CONTAINING THE SAME, AND METHOD FOR VULCANIZATION.

TIEN FLUORINATED TRIALLYL ISOCYANURATES, VULCANIZABLE ELASTOMER COMPOSITIONS  
CONTAINING THE SAME, AND METHOD FOR VULCANIZATION.

L2 ANSWER 91 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN METHOD FOR STABILIZING FLUOROPOLYMER.

TIEN METHOD FOR STABILIZING FLUOROPOLYMER.

L2 ANSWER 92 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Low dielectric resin composition.

TIEN Low dielectric resin composition.

L2 ANSWER 93 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN USE OF PARTIALLY FLUORINATED POLYMERS IN APPLICATIONS REQUIRING  
TRANSPARENCY IN THE ULTRAVIOLET AND VACUUM ULTRAVIOLET

TIFR UTILISATION DE POLYMERES PARTIELLEMENT FLUORES DANS DES APPLICATIONS  
NECESSITANT LA TRANSPARENCE DANS L'ULTRAVIOLET ET L'ULTRAVIOLET EXTREME

L2 ANSWER 94 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN ANTIMICROBIAL POWDER COATED METAL SHEET

TIFR FEUILLE METALLIQUE REVETUE D'UNE POUDRE ANTIMICROBIENNE

L2 ANSWER 95 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN POLYCYCLIC FLUORINE-CONTAINING POLYMERS AND PHOTORESISTS FOR  
MICROLITHOGRAPHY

TIFR FLUOROPOLYMERES POLYCYCLIQUES ET PHOTORESINES POUR MICROLITHOGRAVURE

L2 ANSWER 96 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN PROTECTING GROUPS IN POLYMERS, PHOTORESISTS AND PROCESSES FOR  
MICROLITHOGRAPHY

TIFR GROUPE PROTECTEURS DANS LES POLYMERES, LES PHOTORESINES ET PROCEDES DE  
MICROLITHOGRAPHIE

L2 ANSWER 97 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN ANTIREFLECTIVE LAYER FOR USE IN MICROLITHOGRAPHY

TIFR COUCHE ANTI-REFLECHISSANTE DESTINEE A ETRE UTILISEE EN MICROLITHOGRAPHIE

L2 ANSWER 98 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN MULTILAYER ELEMENTS CONTAINING PHOTORESIST COMPOSITIONS AND THEIR USE IN  
MICROLITHOGRAPHY

TIFR ELEMENTS MULTICOUCHES CONTENANT DES COMPOSITIONS DE PHOTORESIST ET LEUR  
UTILISATION DANS LA MICROLITHOGRAPHIE

L2 ANSWER 99 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN BASES AND SURFACTANTS AND THEIR USE IN PHOTORESIST COMPOSITIONS FOR  
MICROLITHOGRAPHY

TIFR BASES ET TENSIOACTIFS, ET LEUR UTILISATION DANS DES COMPOSITIONS DE  
PHOTORESINE POUR MICROLITHOGRAVURE

L2 ANSWER 100 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN POLYMERS BLENDS AND THEIR USE IN PHOTORESIST COMPOSITIONS FOR  
MICROLITHOGRAPHY

TIFR MELANGES DE POLYMERES ET LEUR UTILISATION DANS DES COMPOSITIONS DE  
PHOTORESINE DESTINEES A LA MICROLITHOGRAPHIE

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L2 ANSWER 101 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN FLUORINATED PHENOLIC POLYMERS AND PHOTORESIST COMPOSITIONS COMPRISING  
SAME  
TIFR POLYMERES PHENOLIQUES FLUORES ET COMPOSITIONS DE PHOTORESINE LES  
CONTENANT

L2 ANSWER 102 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN PERFLUOROPOLYETHERS AND PROCESSES THEREFOR AND THEREWITH  
TIFR PERFLUOROPOLYETHERS ET LEURS PROCEDES DE PREPARATION ET D'UTILISATION

L2 ANSWER 103 OF 192 USPATFULL on STN  
TI Layered product olefin foam and use

L2 ANSWER 104 OF 192 USPATFULL on STN  
TI Fluorinated phenolic polymers and photoresist compositions comprising  
same

L2 ANSWER 105 OF 192 USPATFULL on STN  
TI Novel polymers and photoresist compositions for short short wavelength  
imaging

L2 ANSWER 106 OF 192 USPATFULL on STN  
TI Resin compositions for skin members and laminates thereof

L2 ANSWER 107 OF 192 USPATFULL on STN  
TI Fluoromonomer polymerization

L2 ANSWER 108 OF 192 USPATFULL on STN  
TI Anti-reflection film and display device having the same

L2 ANSWER 109 OF 192 USPATFULL on STN  
TI Image forming material and preparation method thereof

L2 ANSWER 110 OF 192 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN  
TI Process for producing fluoroalkanols, for use as intermediate materials  
and as dissolving agent for dyes, comprises a telomerization of  
tetrafluoroethylene and methanol.

L2 ANSWER 111 OF 192 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 15  
TI Process for producing fluoroalkanol

L2 ANSWER 112 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 16  
TI PROCESS FOR PRODUCING FLUOROALCOHOL; REACTION OF  
METHANOL WITH TETRAFLUOROETHYLENE OR HEXAFLUOROPROPYLENE  
IN THE PRESENCE OF INITIATOR

L2 ANSWER 113 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN DUPLICATE  
DUPLICATE 17  
TIEN COPOLYMERS FOR PHOTORESISTS AND PROCESSES THEREFOR  
TIFR COPOLYMERES POUR PHOTORESINES ET PROCEDES AFFERENTS

L2 ANSWER 114 OF 192 USPATFULL on STN DUPLICATE 18  
TI Fluorine-containing polymer composition

L2 ANSWER 115 OF 192 USPATFULL on STN DUPLICATE 19  
TI Fluorine-containing diene, its production method and its polymer

L2 ANSWER 116 OF 192 USPATFULL on STN DUPLICATE 20  
TI Optical waveguide

L2 ANSWER 117 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN ELECTRODE FOR NONAQUEOUS ELECTROLYTE BATTERY.

L2 ANSWER 118 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
 TIEN Anti-reflection film, polarizing plate comprising the same, and image display device using the anti-reflection film or the polarizing plate.

L2 ANSWER 119 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
 TIEN ANTIREFLECTION FILM AND NONGLARE ARTICLE.

L2 ANSWER 120 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
 TIEN POLYMERS WITH CRYSTALLIZABLE FLUOROCARBON SIDE CHAINS, THEIR MONOMERS, AND SUBSTRATES COATED WITH THE POLYMERS.

L2 ANSWER 121 OF 192 INPADOC COPYRIGHT 2004 EPO on STN  
 TI METHOD OF PREPARING FLUOROALCOHOL.

L2 ANSWER 122 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
 TIEN MONOHYDRIC POLYFLUOROOXETANE OLIGOMERS, POLYMERS, AND COPOLYMERS AND COATINGS CONTAINING THE SAME  
 TIFR OLIGOMERES, POLYMERES ET COPOLYMERES DE POLYFLUOROOXETANE MONOHYDRIQUES ET REVETEMENTS CONTENANT CES COMPOSES

L2 ANSWER 123 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
 TIEN NITRILE/FLUOROALCOHOL-CONTAINING PHOTORESISTS AND ASSOCIATED PROCESSES FOR MICROLITHOGRAPHY  
 TIFR PHOTORESISTS A BASE DE NITRILE/FLUOROALCOOL ET PROCEDES DE MICROLITHOGRAPHIE ASSOCIES

L2 ANSWER 124 OF 192 USPATFULL on STN  
 TI Method of manufacturing light transmission tubes

L2 ANSWER 125 OF 192 USPATFULL on STN  
 TI Method for manufacturing fluoroalcohol

L2 ANSWER 126 OF 192 USPATFULL on STN  
 TI Fluorine-containing polymer composition

L2 ANSWER 127 OF 192 USPATFULL on STN  
 TI Enzyme electrode and a biosensor and a measuring apparatus therewith

L2 ANSWER 128 OF 192 USPATFULL on STN  
 TI Light transmission tubes

L2 ANSWER 129 OF 192 USPATFULL on STN  
 TI Optical waveguide

L2 ANSWER 130 OF 192 USPATFULL on STN  
 TI Fluorine-containing polymer composition

L2 ANSWER 131 OF 192 USPATFULL on STN  
 TI Fluorinated triallyl isocyanurates, vulcanizable elastomer compositions containing the same, and method for vulcanization

L2 ANSWER 132 OF 192 USPATFULL on STN  
 TI Fluorine-containing polymer composition

L2 ANSWER 133 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN DUPLICATE 21  
 TIEN Process for producing fluoroalcohol.

L2 ANSWER 134 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
 TIEN Laminate comprising a sliding member layer and a substrate layer.

L2 ANSWER 135 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN

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TIEN Resin compositions for skin members and laminates thereof.

L2 ANSWER 136 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN An enzyme electrode and a biosensor and a measuring apparatus therewith.

L2 ANSWER 137 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Method for manufacturing fluoroalcohol.

L2 ANSWER 138 OF 192 USPATFULL on STN  
TI Anti-reflection film and display device having the same

L2 ANSWER 139 OF 192 USPATFULL on STN  
TI Image forming method and image forming apparatus using specific developer composition

L2 ANSWER 140 OF 192 USPATFULL on STN  
TI Cosmetic preparations containing fluorinated oils

L2 ANSWER 141 OF 192 USPATFULL on STN  
TI Magnetic carrier, two-component developer and image forming method

L2 ANSWER 142 OF 192 USPATFULL on STN  
TI Toner, two-component developer and image forming method

L2 ANSWER 143 OF 192 USPATFULL on STN  
TI Process for producing surface-modified rubber, surface-modified rubber, and sealing material

L2 ANSWER 144 OF 192 USPATFULL on STN  
TI Silver halide photosensitive material and method for forming image

L2 ANSWER 145 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Anti-reflection film and display device having the same.

L2 ANSWER 146 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN PROCESS FOR PRODUCING SURFACE-MODIFIED RUBBER, SURFACE-MODIFIED RUBBER, AND SEALING MATERIAL.

L2 ANSWER 147 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN PROTECTIVE FILMS AND COATINGS  
TIFR FILMS ET REVETEMENTS PROTECTEURS

L2 ANSWER 148 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN PERFLUOROALKYL HALOALKYL ETHERS AND COMPOSITIONS AND APPLICATIONS THEREOF  
TIFR PERFLUOROALKYLE HALOALKYLE ETHERS, COMPOSITIONS ET LEURS APPLICATIONS

L2 ANSWER 149 OF 192 USPATFULL on STN  
TI Fluorine-containing olefin, fluorine-containing polymer and thermoplastic resin composition prepared by using said polymer

L2 ANSWER 150 OF 192 USPATFULL on STN  
TI Protective films and coatings

L2 ANSWER 151 OF 192 USPATFULL on STN  
TI Low dielectric resin composition

L2 ANSWER 152 OF 192 USPATFULL on STN  
TI Process for making inorganic oxide gels in fluorocarbon solvents

L2 ANSWER 153 OF 192 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN  
TI Preparation of fluoroalcohols for use as solvents in information recording

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media adapted for laser reading and/or writing.

L2 ANSWER 154 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN FLUOROOLEFIN, FLUOROPOLYMER, AND THERMOPLASTIC RESIN COMPOSITION  
CONTAINING THE POLYMER.  
TIEN FLUOROOLEFIN, FLUOROPOLYMER, AND THERMOPLASTIC RESIN COMPOSITION  
CONTAINING THE POLYMER.

L2 ANSWER 155 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN COATINGS CONTAINING FLUORINATED ESTERS  
TIFR REVETEMENTS CONTENANT DES ESTERS FLUORES

L2 ANSWER 156 OF 192 USPATFULL on STN  
TI Fluoropolymer nanocomposites

L2 ANSWER 157 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN POLYMERS WITH CRYSTALLIZABLE FLUOROCARBON SIDE CHAINS, THEIR MONOMERS,  
AND SUBSTRATES COATED WITH THE POLYMERS  
TIFR POLYMERES A CHAINES LATERALES FLUOROCARBONEES CRISTALLISABLES, LEURS  
MONOMERES, ET SUBSTRATS ENDUITS DE CES POLYMERES

L2 ANSWER 158 OF 192 USPATFULL on STN  
TI High molecular weight polyimidoylamidine and a polytriazine derived  
therefrom

L2 ANSWER 159 OF 192 USPATFULL on STN  
TI Abrasion-resistant and low friction coating compositions

L2 ANSWER 160 OF 192 USPATFULL on STN  
TI Fluorine-containing olefin, fluorine-containing polymer and  
thermoplastic resin composition prepared by using said polymer

L2 ANSWER 161 OF 192 USPATFULL on STN  
TI Coatings containing fluorinated esters

L2 ANSWER 162 OF 192 USPATFULL on STN  
TI Polymers with crystallizable fluoropolymers

L2 ANSWER 163 OF 192 USPATFULL on STN  
TI Fluorine-containing polymer composition

L2 ANSWER 164 OF 192 USPATFULL on STN  
TI Flame retardant resin composition and flame retardant plastic optical  
fiber cable using the same

L2 ANSWER 165 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Methanol-resistant fluorocarbon elastomers.

L2 ANSWER 166 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Polymer having a fluorine-containing end group and production of the  
same.

L2 ANSWER 167 OF 192 USPATFULL on STN  
TI Process for protecting stony materials, marble, tiles, and cement from  
atmospheric agents and pollutants

L2 ANSWER 168 OF 192 USPATFULL on STN  
TI Process for protecting and consolidating stony materials

L2 ANSWER 169 OF 192 USPATFULL on STN  
TI Novel fluorine-containing non-crystalline copolymer



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L2 ANSWER 170 OF 192 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Copolymers of vinyl alcohol and fluorine containing  
acrylate monomers

L2 ANSWER 171 OF 192 USPATFULL on STN  
TI Fluorinated tris-epoxides based on triphenyl methane

L2 ANSWER 172 OF 192 USPATFULL on STN  
TI Separating agent with fluoroalkyl group

L2 ANSWER 173 OF 192 USPATFULL on STN  
TI Fluorine-containing copolymers, a process for their preparation and  
their use

L2 ANSWER 174 OF 192 USPATFULL on STN  
TI Fluorooxyalkyl vinyl ethers

L2 ANSWER 175 OF 192 USPATFULL on STN  
TI Copolymer for fluorine-containing elastomer having excellent low  
temperature resistance and alcohol resistance

L2 ANSWER 176 OF 192 USPATFULL on STN  
TI Fluorine-containing monomer and process for producing the same

L2 ANSWER 177 OF 192 USPATFULL on STN  
TI Polymer having a fluorine-containing end group and production of the  
same

L2 ANSWER 178 OF 192 USPATFULL on STN  
TI Fluorooxyalkyl vinyl ethers

L2 ANSWER 179 OF 192 USPATFULL on STN  
TI Plastic optical fibers

L2 ANSWER 180 OF 192 USPATFULL on STN  
TI Fluorinated vinyl ether copolymers having low glass transition  
temperatures

L2 ANSWER 181 OF 192 USPATFULL on STN  
TI Copolymer for fluorine-containing elastomer having excellent low  
temperature resistance and alcohol resistance

L2 ANSWER 182 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 22  
TI TELOMERIZATION OF TETRAFLUOROETHYLENE; WITH METHANOL

L2 ANSWER 183 OF 192 USPATFULL on STN  
TI Liquid coating composition containing vinyl fluoride-hexafluoropropylene  
resin

L2 ANSWER 184 OF 192 JAPIO (C) 2004 JPO on STN  
TI TELOMERIZATION OF TETRAFLUOROETHYLENE

L2 ANSWER 185 OF 192 USPATFULL on STN  
TI Photo-sensitive etchant and method for forming metal image using same

L2 ANSWER 186 OF 192 USPATFULL on STN  
TI Method for preparing vinyl fluoride-hexafluoro-propylene resin and  
method for producing a coating therefrom

L2 ANSWER 187 OF 192 USPATFULL on STN  
TI Light transmitting fibers

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L2 ANSWER 188 OF 192 USPATFULL on STN  
TI Tertiary amine sulfamic acid salts of polyfluoroalkoxyalkyl carbamates

L2 ANSWER 189 OF 192 USPATFULL on STN  
TI PREPARATION OF OMEGA-HYDROPERFLUOROALKANES

L2 ANSWER 190 OF 192 JAPIO (C) 2004 JPO on STN  
TI METHOD FOR PRODUCING FLUORINE-CONTAINING ALCOHOL

L2 ANSWER 191 OF 192 JAPIO (C) 2004 JPO on STN  
TI METHOD FOR PRODUCING FLUOROALCOHOL

L2 ANSWER 192 OF 192 JAPIO (C) 2004 JPO on STN  
TI PRODUCTION OF FLUOROALCOHOL

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6,49,50,58,71,72,78,79,80,81,85,86,87,89,110,111,112,121,125,133,137,153,182,184,190,191,192 bib ab

L2 ANSWER 6 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN  
AN 10584439 IFIPAT;IFIUDB;IFICDB  
TI PROCESS FOR PRODUCING A FLUOROALKANOL  
INF Tanabe; Koichiro, Ichihara-shi, JP  
Tanaka; Hidemi, Ichihara-shi, JP  
Toma; Tohihiko, Ichihara-shi, JP  
Wada; Akihiro, Ichihara-shi, JP  
Yamagishi; Nobuyuki, Ichihara-shi, JP  
IN Tanabe Koichiro (JP); Tanaka Hidemi (JP); Toma Tohihiko (JP); Wada Akihiro (JP); Yamagishi Nobuyuki (JP)  
PAF ASAHI GLASS COMPANY LIMITED, TOKYO, JP  
PA Asahi Glass Co Ltd JP (5608)  
AG OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET, ALEXANDRIA, VA, 22314, US  
PI US 2004091661 A9 20040513  
AI US 2001-28827 20011228  
RLI WO 2000-JP4248 20000628 CONTINUATION  
PRAI JP 1999-185701 19990630  
FI US 2004091661 20040513  
DT Utility; Patent Application - Corrected Publication  
FS CHEMICAL APPLICATION

CLMN 8

AB A process for producing a fluoroalkanol of high purity containing little evaporation residue, which can be industrially easily carried out with high selectivity, is provided. In the process, a radical initiator and CF<sub>2</sub>.dbd. CFR<sub>3</sub> (formula 3) are continuously added to CHR<sub>1</sub>R<sub>2</sub> OH (Formula 2) to react them to form H (CFR<sub>3</sub>CF<sub>2</sub>)<sub>n</sub> CR<sub>1</sub>R<sub>2</sub> OH (formula 1). In the formulae, n is an integer of from 1 to 4, each of R<sub>1</sub> and R<sub>2</sub> is a hydrogen atom or a C1-3 alkyl group, and R<sub>3</sub> is a fluorine atom or a C1-4 perfluoroalkyl group.

L2 ANSWER 49 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 1325900 EUROPATFULL ED 20030714 EW 200328 FS OS  
TIEN PROCESS FOR PRODUCING FLUOROALKANOL.  
TIDE VERFAHREN ZUR HERSTELLUNG VON FLUORALKANOL.  
TIFR PROCEDE DE PRODUCTION DE FLUOROALCANOL.  
IN TOHMA, Toshihiko, 10, Goikaigan, Ichihara-shi, Chiba 290-8566, JP;

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PA WADA, Akihiro, 10, Goikaigan, Ichihara-shi, Chiba 290-8566, JP  
ASAHI GLASS COMPANY LTD., 12-1, Yurakucho 1-chome, Chiyoda-ku, Tokyo  
100-8405, JP  
PAN 242775  
AG Mueller-Bore & Partner Patentanwaelte, Grafinger Strasse 2, 81671  
Muenchen, DE  
AGN 100651  
OS MEPA2003053 EP 1325900 A1 0008  
SO Wila-EPZ-2003-H28-T1a  
DT Patent  
LA Anmeldung in Japanisch; Veroeffentlichung in Englisch;  
Verfahren in Englisch  
DS R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE;  
R IT; R LI; R LU; R MC; R NL; R PT; R SE; R TR; R AL; R LT; R LV; R MK;  
R RO; R SI  
PIT EPA1 EUROPÄISCHE PATENTANMELDUNG (Internationale Anmeldung)  
PI EP 1325900 A1 20030709  
OD 20030709  
AI EP 2001-963450 20010905  
PRAI JP 2000-2000273711 20000908  
RLI WO 01-JP7711 010905 INTAKZ  
WO 02020444 020314 INTPNR  
ABEN A process for producing a fluoroalkanol which can easily be  
industrially practiced with high selectivity, is provided.

CHR.sup1.R.sup2.OH, a radical initiator and CF.sub2.=CFR.supf.  
are continuously supplied and reacted at from 105 to 135°C, and  
H-(R.supf.CFCF.sub2.).subn.-CR.sup1.R.sup2.-OH formed, is continuously  
discharged. Here, each of R.sup1. and R.sup2. is a hydrogen atom or a  
C.sub1-3. alkyl group, R.supf. is a fluorine atom or a C.sub1-4.  
polyfluoroalkyl group, and n is an integer of from 1 to 4.

L2 ANSWER 50 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 1312597 EUROPATFULL ED 20030527 EW 200321 FS OS  
TIEN PROCESS FOR PRODUCING FLUORINATED ALCOHOL.  
TIDE VERFAHREN ZUR HERSTELLUNG EINES FLUORIERTEN ALKOHOLS.  
TIFR PROCEDE POUR PRODUIRE UN ALCOOL FLUORE.  
IN OKAMOTO, Hidekazu c/o Asahi Glass Company, Limited, 1150, Hazawa-cho,  
Kanagawa-ku, Yokohama-shi, Kanagawa 221-8755, JP  
PA ASAHI GLASS COMPANY LTD., 12-1, Yurakucho 1-chome, Chiyoda-ku, Tokyo  
100-8405, JP  
PAN 242775  
AG Mueller-Bore & Partner Patentanwaelte, Grafinger Strasse 2, 81671  
Muenchen, DE  
AGN 100651  
OS MEPA2003040 EP 1312597 A1 0009  
SO Wila-EPZ-2003-H21-T1a  
DT Patent  
LA Anmeldung in Japanisch; Veroeffentlichung in Englisch;  
Verfahren in Englisch  
DS R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE;  
R IT; R LI; R LU; R MC; R NL; R PT; R SE; R TR; R AL; R LT; R LV; R MK;  
R RO; R SI  
PIT EPA1 EUROPÄISCHE PATENTANMELDUNG (Internationale Anmeldung)  
PI EP 1312597 A1 20030521  
OD 20030521  
AI EP 2001-958465 20010824  
PRAI JP 2000-2000254433 20000824

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RLI WO 01-JP7257 010824 INTAKZ  
WO 02016295 020228 INTPNR  
ABEN A process for producing a high-purity fluorinated alcohol in a  
good purification yield, is provided.

In a process for producing a fluorinated alcohol, which  
comprises reacting methanol with tetrafluoroethylene  
or hexafluoropropylene in the presence of an alkyl peroxide,  
the reaction liquid after completion of the reaction is distilled in the  
presence of water and HF to separate it into a fraction containing an  
alcohol derived from the alkyl peroxide and a bottom  
liquid containing the fluorinated alcohol, and then, the  
bottom liquid is purified to recover the fluorinated alcohol.  
<image>

L2 ANSWER 58 OF 192 INPADOC COPYRIGHT 2004 EPO on STN

LEVEL 1

AN 203246102 INPADOC ED 20030506 EW 200318 UP 20031114 UW 200346  
TI METHOD OF SYNTHESIS OF FLUOROALCOHOL, COMPOSITE COMPRISING  
FLUOROALCOHOL, ITS APPLICATION AS DYE SOLVENT, OPTICAL DISK WITH  
RECORDING LAYER BASED ON FLUOROALCOHOL.  
IN SIZAVA TORU; TAKAKI SODZI; JASUKHARA TAKASI; KOJAMA JASUNORI  
INS SIZAVA TORU; TAKAKI SODZI; JASUKHARA TAKASI; KOJAMA JASUNORI  
INA JP; JP; JP; JP  
PA DAIKIN INDUSTRIES, LTD.  
PAS DAIKIN IND LTD  
PAA JP  
TL English  
DT Patent  
PIT RUC2 PATENT (SECOND PUBLICATION)  
PI RU 2198160 C2 20030210  
AI RU 1999-127444 A 19991227  
PRAI JP 1998-373972 A 19981228 (EDPR 20000131)  
JP 1999-48446 A 19990225 (EDPR 20000131)  
AB FIELD: organic chemistry, chemical technology. SUBSTANCE: invention  
relates to method of synthesis of fluoroalcohol of the formula  
(I):  $H(CFR_1CF_2)_nCH_2OH$  where  $R_1$  means F or  $CF_3$  when  $n = 1$ ; and  $R_1$  means F  
when  $n = 2$ . Method involves interaction of methanol with  
tetrafluoroethylene or hexafluoropropylene in the presence of  
source of free radicals. Synthesized reaction mixture is subjected for  
distillation either in the presence of a base or after contact of  
indicated mixture with a base. Fluoroalcohol of the formula (I)  
obtained by distillation has residue after evaporation 50 m.D., not  
above. Peroxide initiating reaction agent, UV-radiation or  
heating are used as the source of free radicals. Composite presents  
fluoroalcohol of the formula (I) with residue after evaporation  
50 m.D., not above. Composite is used as dye solvent in production of  
carrier of information recording for laser recording and/or reading.  
Using fluoroalcohol of the formula (I) optical disk for laser  
recording and/or reading is made. Invention provides synthesis of  
fluoroalcohol that is useful for making laser recording and/or  
reading carrier. EFFECT: improved method of synthesis. 20 cl, 9 tbl, 2  
dwg

L2 ANSWER 71 OF 192 USPTAFULL on STN

AN 2003:226639 USPTAFULL  
TI Process for producing a fluoroalkanol  
IN Tohma, Toshihiko, Ichihara-shi, JAPAN  
Wada, Akihiro, Ichihara-shi, JAPAN  
PA ASAHI GLASS COMPANY LIMITED, Chiyoda-ku, JAPAN (non-U.S. corporation)

10/028,827

PI US 2003158452 A1 20030821  
AI US 2003-383688 A1 20030310 (10)  
RLI Continuation of Ser. No. WO 2001-JP7711, filed on 5 Sep 2001, UNKNOWN  
PRAI JP 2000-273711 20000908  
DT Utility  
FS APPLICATION  
LREP OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET,  
ALEXANDRIA, VA, 22314  
CLMN Number of Claims: 9  
ECL Exemplary Claim: 1  
DRWN 1 Drawing Page(s)  
LN.CNT 369

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for producing a fluoroalkanol which can easily be industrially practiced with high selectivity, is provided.

CHR.sup.1R.sup.2OH, a radical initiator and CF.sub.2.dbd.CFR.sup.f are continuously supplied and reacted at from 105 to 135° C., and H--(R.sup.fCFCF.sub.2).sub.n--CR.sup.1R.sup.2--OH formed, is continuously discharged. Here, each of R.sup.1 and R.sup.2 is a hydrogen atom or a C.sub.1-3 alkyl group, R.sup.f is a fluorine atom or a C.sub.1-4 polyfluoroalkyl group, and n is an integer of from 1 to 4.

L2 ANSWER 72 OF 192 USPATFULL on STN  
AN 2003:214669 USPATFULL  
TI Process for producing a fluorinated alcohol  
IN Okamoto, Hidekazu, Yokohama-shi, JAPAN  
PA ASAHI GLASS COMPANY LIMITED, Tokyo, JAPAN (non-U.S. corporation)  
PI US 2003149312 A1 20030807  
AI US 2003-370507 A1 20030224 (10)  
RLI Continuation of Ser. No. WO 2001-JP7257, filed on 24 Aug 2001, UNKNOWN  
PRAI JP 2000-254433 20000824  
DT Utility  
FS APPLICATION  
LREP OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET,  
ALEXANDRIA, VA, 22314  
CLMN Number of Claims: 12  
ECL Exemplary Claim: 1  
DRWN 2 Drawing Page(s)  
LN.CNT 455

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for producing a high-purity fluorinated alcohol in a good purification yield, is provided.

In a process for producing a fluorinated alcohol, which comprises reacting methanol with tetrafluoroethylene or hexafluoropropylene in the presence of an alkyl peroxide, the reaction liquid after completion of the reaction is distilled in the presence of water and HF to separate it into a fraction containing an alcohol derived from the alkyl peroxide and a bottom liquid containing the fluorinated alcohol, and then, the bottom liquid is purified to recover the fluorinated alcohol.

L2 ANSWER 78 OF 192 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 8  
AN 2002:171828 CAPLUS  
DN 136:233886  
TI Process for producing fluoroalcohol  
IN Yoshizawa, Toru; Takaki, Shouji  
PA Daikin Industries, Ltd., Japan  
SO PCT Int. Appl., 16 pp.  
CODEN: PIXXD2

10/028,827

DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002018308	A1	20020307	WO 2001-JP6074	20010713
	W: CN, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	JP 2002069021	A2	20020308	JP 2000-257853	20000828
PRAI	JP 2000-257853	A	20000828		

AB This document discloses a process for producing a fluoroalc. represented by the general formula  $H(CF_2CF_2)_nCH_2OH$  (I) (wherein n is 1 or 2) from tetrafluoroethylene and methanol as starting materials in the presence of an acid acceptor and an organic peroxide which generates tert-butanol upon decomposition; said process comprises the steps of : (i) reacting tetrafluoroethylene with methanol; (ii) removing both the product of the reaction of the acid acceptor and the acid acceptor remaining unreacted from the crude reaction product obtained; and (iii) heating the crude reaction product treated in the step (ii) under acidic conditions to sep. out the fluoroalc. represented by the general formula I. Tetrafluoropropanol is a solvent used in the production of recording media. Tetrafluoropropanol (purity  $\geq 99.9\%$ ) was produced by the title process.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 79 OF 192 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 9  
AN 2002:129094 CAPLUS  
DN 136:167088  
TI Preparation of fluoroalkanols by telomerization  
IN Ichihara, Kazuyoshi; Homoto, Yukio; Baba, Noriaki  
PA Daikin Industries, Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 4 pp.  
CODEN: JKXXAF

DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002053505	A2	20020219	JP 2000-244238	20000811
	WO 2002014249	A1	20020221	WO 2001-JP6656	20010802
	W: CN, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
PRAI	JP 2000-244238	A	20000811		

OS CASREACT 136:167088  
AB Fluoroalkanols  $H(CF_2CF_2)_nCH_2OH$  (mainly containing n = 1 products) are prepared by telomerization of tetrafluoroethylene (TFE) with MeOH at a partial pressure ratio of  $<1/5$  under control of total reaction pressure and temperature conditions to suppress formation of  $n \geq 2$  products. TFE was treated with MeOH in an autoclave at a TFE/MeOH partial pressure ratio of  $1/15$  in the presence of  $CaCO_3$  and di(tert-Bu) peroxide to give a telomer (n = 1, Mn 143.0) in MeOH conversion 10.3 mol% and selectivity 93.7%.

L2 ANSWER 80 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 10  
AN 10142492 IFIPAT;IFIUDB;IFICDB  
TI PROCESS FOR PRODUCING A FLUOROALKANOL; REACTING ALKANOL WITH A PERFLUOROOLEFIN IN PRESENCE OF RADICAL INITIATOR TO PRODUCE FLUOROALKANOL  
INF Tanabe; Koichiro, Ichihara-shi, JP

Tanaka; Hidemi, Ichihara-shi, JP  
 Toma; Tohihiko, Ichihara-shi, JP  
 Wada; Akihiro, Ichihara-shi, JP  
 Yamagishi; Nobuyuki, Ichihara-shi, JP  
 IN Tanabe Koichiro (JP); Tanaka Hidemi (JP); Toma Tohihiko (JP); Wada  
 Akihiro (JP); Yamagishi Nobuyuki (JP)  
 PAF ASAHI GLASS COMPANY LIMITED, TOKYO, JP  
 PA Asahi Glass Co Ltd JP (5608)  
 AG OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT PC FOURTH FLOOR, 1755 JEFFERSON  
 DAVIS HIGHWAY, ARLINGTON, VA, 22202, US  
 PI US 2002086131 A1 20020704  
 AI US 2001-28827 20011228  
 RLI WO 2000-JP4248 20000628 CONTINUATION UNKNOWN  
 PRAI JP 1999-185701 19990630  
 FI US 2002086131 20020704  
 DT Utility; Patent Application - First Publication  
 FS CHEMICAL  
 APPLICATION  
 CLMN 8  
 AB A process for producing a fluoroalkanol of high purity  
 containing little evaporation residue, which can be industrially easily  
 carried out with high selectivity, is provided. In the process, a radial  
 initiator and CF<sub>2</sub> horizontalline CFR<sub>3</sub> (formula 3) are  
 continuously added to CHR<sub>1</sub>R<sub>2</sub>-OH (Formula 2) to react them to form  
 H-(CFR<sub>3</sub>CF<sub>2</sub>)<sub>n</sub>-CR<sub>1</sub>R<sub>2</sub>-OH (formula 1). In the formulae, n is an integer of  
 from 1 to 4, each of R<sub>1</sub> and R<sub>2</sub> is a hydrogen atom or a C1-3 alkyl group,  
 and R<sub>3</sub> is a fluorine atom or a C1-4 perfluoroalkyl group.

L2 ANSWER 81 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 11  
 AN 03687483 IFIPAT;IFIUDB;IFICDB  
 TI PROCESS FOR PRODUCTION OF FLUOROALCOHOL; REACTING  
 METHANOL WITH TETRAFLUOROETHYLENE OR  
 HEXAFLUOROPROPYLENE  
 INF Takaki; Shoji, Settsu, JP  
 Yasuhara; Takashi, Settsu, JP  
 Yokoyama; Yasunori, Settsu, JP  
 Yoshizawa; Toru, Settsu, JP  
 IN Takaki Shoji (JP); Yasuhara Takashi (JP); Yokoyama Yasunori (JP);  
 Yoshizawa Toru (JP)  
 PAF Daikin Industries, Ltd., Osaka-fu, JP  
 PA Daikin Kogyo Co Ltd JP (1197)  
 EXNAM O'Sullivan, Peter  
 AG Larson & Taylor PLC  
 PI US 6392105 B1 20020521  
 AI US 1999-388384 19990901  
 XPD 1 Sep 2019  
 PRAI JP 1998-373972 19981228  
 JP 1999-48446 19990225  
 FI US 6392105 20020521  
 DT Utility  
 FS CHEMICAL  
 GRANTED  
 NTE This Patent is subject to a Terminal Disclaimer.  
 MRN 010326 MFN: 0773  
 010583 0589  
 CLMN 20  
 AB The invention provide a method for producing a fluoroalcohol of  
 the following formula (1): H(CFR<sub>1</sub> CF<sub>2</sub>)<sub>n</sub> CH<sub>2</sub> OH (1) (wherein R<sub>1</sub>  
 represents F or CF<sub>3</sub>, when n=1; R<sub>1</sub> represents F, when n=2) comprising  
 reacting methanol with tetrafluoroethylene or  
 hexafluoropropylene in the presence of a free radical source, wherein the  
 reaction mixture is subjected to distillation either in the presence of a

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base or after contact of said reaction mixture with a base.

L2 ANSWER 85 OF 192 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2002:185043 CAPLUS  
DN 136:249368  
TI Process for producing fluoroalkanol  
IN Tohma, Toshihiko; Wada, Akihiro  
PA Asahi Glass Company, Limited, Japan  
SO PCT Int. Appl., 16 pp.  
CODEN: PIXXD2  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002020444	A1	20020314	WO 2001-JP7711	20010905
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	JP 2002088001	A2	20020327	JP 2000-273711	20000908
	AU 2001084442	A5	20020322	AU 2001-84442	20010905
	EP 1325900	A1	20030709	EP 2001-963450	20010905
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 2003158452	A1	20030821	US 2003-383688	20030310
PRAI	JP 2000-273711	A	20000908		
	WO 2001-JP7711	W	20010905		

OS MARPAT 136:249368

AB The title process comprises continuously feeding CHR<sub>1</sub>R<sub>2</sub>OH (R<sub>1</sub> and R<sub>2</sub> each is hydrogen or C<sub>1</sub>-3 alkyl), a free-radical initiator, and CF<sub>2</sub>:CFR<sub>f</sub> (R<sub>f</sub> is fluorine or C<sub>1</sub>-4 polyfluoroalkyl) to a reactor at 105° to 135° and continuously discharging the product H(R<sub>f</sub>CF<sub>2</sub>)<sub>n</sub>CR<sub>1</sub>R<sub>2</sub>OH (wherein R<sub>1</sub> and R<sub>2</sub> each is hydrogen or C<sub>1</sub>-3 alkyl; R<sub>f</sub> is fluorine or C<sub>1</sub>-4 polyfluoroalkyl; and n is an integer of 1 to 4). Fluoroalkanols are useful as solvents for optical recording materials and as intermediates for surfactants, photog. development materials, etc. The title process for fluoroalkanol production can be industrially carried out with high selectivity. 2,2,3,3-Tetrafluoro-1-propanol (I) was prepared by the title process with 93% selectivity for I.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 86 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 1191009 EUROPATFULL ED 20020404 EW 200213 FS OS  
TIEN PROCESS FOR PRODUCING FLUOROALKANOL.  
TIDE VERFAHREN ZUR HERSTELLUNG VON FLUORALKANOL.  
TIFR PROCEDE DE PRODUCTION DE FLUOROALCANOL.  
IN WADA, Akihiro, Asahi Glass Company, Limited, 10, Goikaigan, Ichihara-shi, Chiba 290-0058, JP;  
TANAKA, Hidemi, Asahi Glass Company, Limited, 10, Goikaigan, Ichihara-shi, Chiba 290-0058, JP;  
TANABE, Koichiro, Asahi Glass Company, Limited, 10, Goikaigan, Ichihara-shi, Chiba 290-0058, JP;



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YAMAGISHI, Nobuyuki, Asahi Glass Company, Limited, 10, Goikaigan,  
Ichihara-shi, Chiba 290-0058, JP;  
TOMA, Toshihiko, Asahi Glass Company, Limited, 10, Goikaigan,  
Ichihara-shi, Chiba 290-0058, JP  
PA ASAHI GLASS COMPANY LTD., 12-1, Yurakucho 1-chome, Chiyoda-ku, Tokyo  
100-8405, JP  
PAN 242775  
AG Mueller-Bore & Partner Patentanwaelte, Grafinger Strasse 2, 81671  
Muenchen, DE  
AGN 100651  
OS BEPA2002027 EP 1191009 A1 0006  
SO Wila-EPZ-2002-H13-T1a  
DT Patent  
LA Anmeldung in Japanisch; Veroeffentlichung in Englisch;  
Verfahren in Englisch  
DS R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE;  
R IT; R LI; R LU; R MC; R NL; R PT; R SE  
PIT EPA1 EUROPÄISCHE PATENTANMELDUNG (Internationale Anmeldung)  
PI EP 1191009 A1 20020327  
OD 20020327  
AI EP 2000-942366 20000628  
PRAI JP 1999-185701 19990630  
RLI WO 00-JP4248 000628 INTAKZ  
WO 0102329 010111 INTPNR  
ABEN A process for producing a fluoroalkanol of high purity  
containing little evaporation residue, which can be industrially easily  
carried out with high selectivity, is provided. In the process, a radial  
initiator and CF<sub>2</sub>=CF<sub>3</sub> (formula 3) are continuously  
added to CHR<sup>1</sup>.R<sup>2</sup>-OH (Formula 2) to react them to form  
H-(CF<sub>3</sub>.CF<sub>2</sub>)<sub>n</sub>-CR<sup>1</sup>.R<sup>2</sup>-OH (formula 1). In the  
formulae, n is an integer of from 1 to 4, each of R<sup>1</sup> and R<sup>2</sup> is  
a hydrogen atom or a C<sub>1-3</sub> alkyl group, and R<sup>3</sup> is a fluorine  
atom or a C<sub>1-4</sub> perfluoroalkyl group.

L2 ANSWER 87 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 1179521 EUROPATFULL ED 20020225 EW 200207 FS OS  
TIEN Process for production of fluoroalcohol.  
TIDE Verfahren zur Herstellung von Fluoralkoholen.  
TIFR Procédé pour la préparation d'alcools fluores.  
IN Yoshizawa, Toru, Yodogawa Seisakusho, Daikin Industries, Ltd., 1-1,  
Nishihitotsuya, Settsu-shi, Osaka-fu, JP;  
Takaki, Shoji, Yodogawa Seisakusho, Daikin Industries, Ltd., 1-1,  
Nishihitotsuya, Settsu-shi, Osaka-fu, JP;  
Yasuhara, Takashi, Yodogawa Seisakusho, Daikin Industries, Ltd., 1-1,  
Nishihitotsuya, Settsu-shi, Osaka-fu, JP;  
Yokoyama, Yasunori, Yodogawa Seisakusho, Daikin Industries, Ltd., 1-1,  
Nishihitotsuya, Settsu-shi, Osaka-fu, JP  
PA DAIKIN INDUSTRIES, LIMITED, Umeda Center Building, 4-12, Nakazaki-nishi  
2-chome, Kita-ku, Osaka-shi, Osaka-fu, JP  
PAN 605934  
AG HOFFMANN - EITLE, Patent- und Rechtsanwaelte Arabellastrasse 4, 81925  
Muenchen, DE  
AGN 101511  
OS BEPA2002015 EP 1179521 A1 0007  
SO Wila-EPZ-2002-H07-T1a  
DT Patent  
LA Anmeldung in Englisch; Veroeffentlichung in Englisch  
DS R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE;

10/028,827

R IT; R LI; R LU; R MC; R NL; R PT; R SE; R RO  
PIT EPA1 EUROPÄISCHE PATENTANMELDUNG  
PI EP 1179521 A1 20020213  
OD 20020213  
AI EP 2001-124226 19990908  
PRAI JP 1998-373972 19981228  
JP 1999-48446 19990225  
RLI EP 967193 DIV  
ABEN The invention provide a method for producing a fluoroalcohol  
of the following formula (1): <chemical formula> (wherein R.sup1.  
represents F or CF.sub3., when n=1; R.sup1. represents F, when n=2)  
comprising reacting methanol with tetrafluoroethylene  
or hexafluoropropylene in the presence of a free radical source, wherein  
the reaction mixture is subjected to distillation either in the presence  
of a base or after contact of said reaction mixture with a base.

L2 ANSWER 89 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 967193 EUROPATFULL ED 20000116 EW 199952 FS OS  
TIEN Process for production of fluoroalcohol and its use for the  
manufacture of an information recording medium.  
TIDE Verfahren zur Herstellung von Fluoralkohol und seine Verwendung zur  
Herstellung einer Informationsspeicherung.  
TIFR Procédé pour la production de fluoroalcool et son utilisation pour la  
fabrication d'un médium d'enregistrement d'information.  
IN Yoshizawa, Toru, Yodogawa Seisakusho, Daikin, Ind. Ltd., 1-1,  
Nishihitotsuya, Settsu-shi, Osaka-fu, JP;  
Takaki, Shoji, Yodogawa Seisakusho, Daikin, Ind. Ltd., 1-1,  
Nishihitotsuya, Settsu-shi, Osaka-fu, JP;  
Yasuhara, Takashi, Yodogawa Seisakusho, Daikin, Ind. Ltd., 1-1,  
Nishihitotsuya, Settsu-shi, Osaka-fu, JP;  
Yokoyama, Yasunori, Yodogawa Seisakusho, Daikin, Ind. Ltd., 1-1,  
Nishihitotsuya, Settsu-shi, Osaka-fu, JP  
PA DAIKIN INDUSTRIES, LIMITED, Umeda Center Building, 4-12, Nakazaki-nishi  
2-chome, Kita-ku, Osaka-shi, Osaka-fu, JP  
PAN 605934  
AG HOFFMANN - EITLE, Patent- und Rechtsanwaelte Arabellastrasse 4, 81925  
Muenchen, DE  
AGN 101511  
OS ESP1999096 EP 0967193 A2 991229  
SO Wila-EPZ-1999-H52-T1a  
DT Patent  
LA Anmeldung in Englisch; Veroeffentlichung in Englisch  
DS R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE;  
R IT; R LI; R LU; R MC; R NL; R PT; R SE; R AL; R LT; R LV; R MK; R RO;  
R SI  
PIT EPA2 EUROPÄISCHE PATENTANMELDUNG  
PI EP 967193 A2 19991229  
OD 19991229  
AI EP 1999-117436 19990908  
PRAI JP 1998-373972 19981228  
JP 1999-48446 19990225

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

AN 967193 EUROPATFULL UP 20021203 EW 200248 FS PS  
TIEN Process for production of fluoroalcohol and its use for the  
manufacture of an information recording medium.  
TIDE Verfahren zur Herstellung von Fluoralkohol und seine Verwendung zur

Herstellung eines Mediums zur Informationsspeicherung.

TIFR Procédé pour la production de fluoroalcool et son utilisation pour la fabrication d'un médium d'enregistrement d'information.

IN Yoshizawa, Toru, Yodogawa Seisakusho, Daikin, Ind. Ltd., 1-1, Nishihitotsuya, Settsu-shi, Osaka-fu, JP; Takaki, Shoji, Yodogawa Seisakusho, Daikin, Ind. Ltd., 1-1, Nishihitotsuya, Settsu-shi, Osaka-fu, JP; Yasuhara, Takashi, Yodogawa Seisakusho, Daikin, Ind. Ltd., 1-1, Nishihitotsuya, Settsu-shi, Osaka-fu, JP; Yokoyama, Yasunori, Yodogawa Seisakusho, Daikin, Ind. Ltd., 1-1, Nishihitotsuya, Settsu-shi, Osaka-fu, JP

PA DAIKIN INDUSTRIES, LIMITED, Umeda Center Building, 4-12, Nakazaki-nishi 2-chome, Kita-ku, Osaka-shi, Osaka-fu, JP

PAN 605934

AG HOFFMANN - EITLE, Patent- und Rechtsanwalte Arabellastrasse 4, 81925 Muenchen, DE

AGN 101511

OS BEPB2002086 EP 0967193 B1 0009

SO Wila-EPS-2002-H48-T1

DT Patent

LA Anmeldung in Englisch; Veröffentlichung in Englisch

DS R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE; R IT; R LI; R LU; R MC; R NL; R PT; R SE; R RO

PIT EPB1 EUROPÄISCHE PATENTSCHRIFT

PI EP 967193 B1 20021127

OD 19991229

AI EP 1999-117436 19990908

PRAI JP 1998-373972 19981228

JP 1999-48446 19990225

REP EP 398154 A EP 968989 A

US 4346250 A

REN CHEMICAL ABSTRACTS, vol. 109, no. 23, 5 December 1988 (1988-12-05) Columbus, Ohio, US; abstract no. 210518, PALETA O ET AL: "Preparation of fluorinated alkanols" XP002132041 & CS244792 B (CZECH.) CHEMICAL ABSTRACTS, vol. 114, no. 21, 27 May 1991 (1991-05-27) Columbus, Ohio, US; abstract no. 206556, PALETA O ET AL: "Production of hexafluoroalkanols from hexafluoropropene and aliphatic alcohols" XP002132042 & CS268247 B (CZECH.)

ABEN The invention provides a method for producing a fluoroalcohol of the following formula (1): <chemical formula> (wherein R.sup1. represents F or CF.sub3., when n=1; R.sup1. represents F, when n=2) comprising reacting methanol with tetrafluoroethylene or hexafluoropropylene in the presence of a free radical source, wherein the reaction mixture is subjected to distillation either in the presence of a base or after contact of said reaction mixture with a base.

L2 ANSWER 110 OF 192 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN

AN 2002-304049 [34] WPIDS

DNC C2002-088400

TI Process for producing fluoroalkanols, for use as intermediate materials and as dissolving agent for dyes, comprises a telomerization of tetrafluoroethylene and methanol.

DC E16

IN BABA, N; HOMOTO, Y; ICHIHARA, K

PA (DAIK) DAIKIN KOGYO KK; (DAIK) DAIKIN IND LTD

CYC 22

PI WO 2002014249 A1 20020221 (200234)\* JA 10

RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

W: CN US

JP 2002053505 A 20020219 (200234) 4

CN 1441764 A 20030910 (200380)

10/028,827

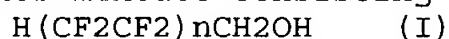
ADT WO 2002014249 A1 WO 2001-JP6656 20010802; JP 2002053505 A JP 2000-244238  
20000811; CN 1441764 A CN 2001-812661 20010802

PRAI JP 2000-244238 20000811

AB WO 200214249 A UPAB: 20020528

NOVELTY - A process for producing a fluoroalkanol having general formula (I) involves telomerization of tetrafluoroethylene and methanol under preset temperature and pressure conditions.

DETAILED DESCRIPTION - A process for producing a fluoroalkanol having general formula (I) involves telomerization of tetrafluoroethylene and methanol under conditions such that the ratio of the partial pressure of tetrafluoroethylene to that of methanol is less than 1/5, and such that total the pressure and the temperature of reactions lie within that range surrounded by points A, B, C and D as shown in Fig.1, with the result that an alcohol mixture consisting mainly of the reaction product (I):



n = 1, while reaction products having n = 2 or greater in formula (I) are excluded.

USE - The fluoroalkanol (I) is for use as a dissolving agent for dyes and as an intermediate material.

ADVANTAGE - The process provides selectively a fluoroalkanol having n =1 in (I) with a high production yield.

DESCRIPTION OF DRAWING(S) - The drawing shows the relation of the reaction pressure to the reaction temperature. Curve AB: vapor pressure of CH<sub>3</sub>OH Point A = 70 deg. C/0.25 kg/cm<sup>2</sup>; Point B = 150 deg. C/13.1 kg/cm<sup>2</sup>; Point C =150 deg. C/16.13 kg/cm<sup>2</sup>; Point D = 70 deg. C/3.25 kg/cm<sup>2</sup>.  
Dwg.1/1

L2 ANSWER 111 OF 192 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 15

AN 2001:31437 CAPLUS

DN 134:85951

TI Process for producing fluoroalkanol

IN Wada, Akihiro; Tanaka, Hidemi; Tanabe, Koichiro; Yamagishi, Nobuyuki; Toma, Toshihiko

PA Asahi Glass Company, Limited, Japan

SO PCT Int. Appl., 11 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001002329	A1	20010111	WO 2000-JP4248	20000628
	W: CN, JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE; IT, LU, MC, NL, PT, SE				
	EP 1191009	A1	20020327	EP 2000-942366	20000628
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	US 2002086131	A1	20020704	US 2001-28827	20011228
	US 2004091661	A9	20040513		
PRAI	JP 1999-185701	A	19990630		
	WO 2000-JP4248	W	20000628		

OS CASREACT 134:85951; MARPAT 134:85951

AB  $\text{H}(\text{CFR}_3\text{CF}_2)_n\text{CR}_1\text{R}_2\text{OH}$  [R<sub>1</sub>, R<sub>2</sub> = H, C1-3 alkyl; R<sub>3</sub> = F, C1-4 perfluoroalkyl; n = integer of 1-4], useful as solvents having reduced evaporation residue for dye solution in making an optical recording layer (no data), are prepared in high purity and selectivity by continuous addition of CF<sub>2</sub>=CFR<sub>3</sub> to CHR<sub>1</sub>R<sub>2</sub>OH in the presence of a radical initiator. C<sub>2</sub>F<sub>4</sub> was continuously fed to a solution of MeOH containing (tert-Bu)<sub>2</sub>O<sub>2</sub> at a fixed rate and 125° to give CHF<sub>2</sub>CF<sub>2</sub>CH<sub>2</sub>OH with 96% selectivity and 22% MeOH conversion, vs. 95% and 6.8%, resp., with a reference process.

10/028,827

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 112 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 16  
AN 03461709 IFIPAT;IFIUDB;IFICDB  
TI PROCESS FOR PRODUCING FLUOROALCOHOL; REACTION OF  
METHANOL WITH TETRAFLUOROETHYLENE OR HEXAFLUOROPROPYLENE  
IN THE PRESENCE OF INITIATOR  
INF Katsube; Toshiyuki, Settsu, JP  
Ogura; Eiji, Settsu, JP  
Takaki; Shoji, Settsu, JP  
Yamaguchi; Fumihiko, Settsu, JP  
Yoshizawa; Toru, Settsu, JP  
IN Katsube Toshiyuki (JP); Ogura Eiji (JP); Takaki Shoji (JP); Yamaguchi  
Fumihiko (JP); Yoshizawa Toru (JP)  
PAF Daikin Industries, Ltd., Osaka-fu, JP  
PA Daikin Kogyo Co Ltd JP (1197)  
EXNAM O'Sullivan, Peter  
AG Larson & Taylor PLC  
PI US 6187969 B1 20010213  
AI US 1999-394679 19990913  
XPD 13 Sep 2019  
PRAI JP 1999-68932 19990315  
FI US 6187969 20010213  
DT Utility  
FS CHEMICAL  
GRANTED  
MRN 010258 MFN: 0598  
CLMN 3  
AB A process for producing a fluoroalcohol of the following  
formula (1)  $H(CFR_1CF_2)_nCH_2OH$  (1) ( $n=1$  or  $2$ , wherein  $R_1$  represents  $F$   
or  $CF_3$  when  $n=1$ ;  $R_1$  represents  $F$  when  $n=2$ ) comprising reacting  
methanol with tetrafluoroethylene or  
hexafluoropropylene in the presence of an initiator wherein the  
fluoroalcohol of formula (1) is distilled after decomposing the  
remaining initiator contained in the reaction mixture.

L2 ANSWER 121 OF 192 INPADOC COPYRIGHT 2004 EPO on STN

LEVEL 1

AN 170552406 INPADOC ED 20020325 EW 200212 UP 20020325 UW 200212  
TI METHOD OF PREPARING FLUOROALCOHOL.  
IN JAMAGUTI FUMIKHIKO; TAKAKI SODZI; JOSIZAVA TORU; OGURA EJDZI; KATSUBE  
TOSIJUKI  
INS JAMAGUTI FUMIKHIKO; TAKAKI SODZI; JOSIZAVA TORU; OGURA EJDZI; KATSUBE  
TOSIJUKI  
INA JP; JP; JP; JP; JP  
PA DAIKIN INDASTRIZ, LTD.  
PAS DAIKIN IND LTD  
PAA JP  
TL English  
DT Patent  
PIT RUC1 PATENT  
PI RU 2163230 C1 20010220  
AI RU 1999-119910 A 19990917  
PRAI JP 1999-68932 A 19990315 (EDPR 20000202)  
AB chemical industry. SUBSTANCE: described is method of preparing  
fluoroalcohol of formula I:  $H(CFR_1CF_2)_nCH_2OH$ , (1) wherein  $n$  is  $1$   
or  $2$ ;  $R_1$  is  $F$  or  $CF_3$ , when  $n$  is  $1$ ;  $R_1$  is  $F$  when  $n$  is  $2$  by reacting  
methanol with tetrafluoroethylene or  
hexafluoropropylene in the presence of initiator.  
Fluoroalcohol of formula I is distilled off after decomposition

10/028,827

of residual initiator contained in reaction mixture. The resulting pure fluoroalcohol is useful in using information recording means. EFFECT: more efficient preparation method. 3 cl

L2 ANSWER 125 OF 192 USPATFULL on STN  
AN 2001:163368 USPATFULL  
TI Method for manufacturing fluoroalcohol  
IN Takaki, Shoji, Settsu, Japan  
Yoshizawa, Toru, Settsu, Japan  
PA Daikin Industries, Ltd., Japan (non-U.S. corporation)  
PI US 6294704 B1 20010925  
AI US 1999-394672 19990913 (9)  
PRAI JP 1999-67714 19990315  
DT Utility  
FS GRANTED  
EXNAM Primary Examiner: O'Sullivan, Peter  
LREP Larson & Taylor, PLC  
CLMN Number of Claims: 2  
ECL Exemplary Claim: 1  
DRWN 3 Drawing Figure(s); 1 Drawing Page(s)  
LN.CNT 289  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB The invention relates to a method for manufacturing a fluoroalcohol represented by formula (1)

H(CFR.sup.1 CF.sub.2).sub.n CH.sub.2 OH (1)

(wherein R.sup.1 represents F or CF.sub.3, when n=1; R.sup.1 represents F, when n=2) by reacting methanol with tetrafluoroethylene or hexafluoropropylene in the presence of a free radical generator, wherein the method comprises the steps of: feeding a reaction mixture into a distillation column; distilling off methanol from the top of the distillation column; withdrawing a bottom fraction comprising the fluoroalcohol from the bottom of the distillation column; removing a fraction comprising water and HF from the distillation column by side cut; feeding methanol from the top of the distillation column back into a reactor for recycling; and purifying the bottom fraction to recover the fluoroalcohol represented by formula (1).

L2 ANSWER 133 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN DUPLICATE 21

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 968989 EUROPATFULL ED 20000213 EW 200001 FS OS  
TIEN Process for producing fluoroalcohol.  
TIDE Verfahren zur Herstellung von Fluoralkoholen.  
TIFR Procédé de préparation d'alcools fluores.  
IN Yamaguchi, Fumihiko, c/o Yodogawa Seisakushi, Daikin Industries, Ltd, 1-1 Nishihitotsuya, Settsu-shi, Osaka-fu, JP;  
Takaki, Shoji, c/o Yodogawa Seisakushi, Daikin Industries, Ltd, 1-1 Nishihitotsuya, Settsu-shi, Osaka-fu, JP;  
Yoshizawa, Toru, c/o Yodogawa Seisakushi, Daikin Industries, Ltd, 1-1 Nishihitotsuya, Settsu-shi, Osaka-fu, JP;  
Ogura, Eiji, c/o Yodogawa Seisakushi, Daikin Industries, Ltd, 1-1 Nishihitotsuya, Settsu-shi, Osaka-fu, JP;  
Katsube, Toshiyuki, c/o Yodogawa Seisakushi, Daikin Industries, Ltd, 1-1 Nishihitotsuya, Settsu-shi, Osaka-fu, JP  
PA DAIKIN INDUSTRIES, LIMITED, Umeda Center Building, 4-12 Nakazaki-nishi 2-chome, Kita-ku, Osaka-shi, Osaka-fu 530, JP  
PAN 605933  
AG HOFFMANN - EITLE, Patent- und Rechtsanwaelte Arabellastrasse 4, 81925

10/028,827

Muenchen, DE  
AGN 101511  
OS BEPA2000001 EP 0968989 A2 0006  
SO Wila-EPZ-2000-H01-T1a  
DT Patent  
LA Anmeldung in Englisch; Veroeffentlichung in Englisch  
DS R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE;  
R IT; R LI; R LU; R MC; R NL; R PT; R SE; R AL; R LT; R LV; R MK; R RO;  
R SI  
PIT EPA2 EUROPAEISCHE PATENTANMELDUNG  
PI EP 968989 A2 20000105  
OD 20000105  
AI EP 1999-118062 19990923  
PRAI JP 1999-68932 19990315  
ABEN A process for producing a fluoroalcohol of the following  
formula (1) <chemical formula> (n=1 or 2, wherein R.sup1. represents F  
or CF.sub3. when n=1; R.sup1. represents F when n=2) comprising reacting  
methanol with tetrafluoroethylene or  
hexafluoropropylene in the presence of an initiator wherein  
the fluoroalcohol of formula (1) is distilled after  
decomposing the remaining initiator contained in the reaction  
mixture.

L2 ANSWER 137 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 968990 EUROPATFULL ED 20000213 EW 200001 FS OS  
TIEN Method for manufacturing fluoroalcohol.  
TIDE Verfahren zur Herstellung von Fluoralkoholen.  
TIFR Procede de preparation d'alcools fluores.  
IN Takaki, Shoji, c/o Yodogawa Seisakusho, Daikin Industries, Ltd., 1-1  
Nishihitotsuya, Settsu-shi, Osaka-fu, JP;  
Yoshizawa, Toru, c/o Yodogawa Seisakusho, Daikin Industries, Ltd., 1-1  
Nishihitotsuya, Settsu-shi, Osaka-fu, JP  
PA DAIKIN INDUSTRIES, LIMITED, Umeda Center Building, 4-12 Nakazaki-nishi  
2-chome, Kita-ku, Osaka-shi, Osaka-fu 530, JP  
PAN 605933  
AG HOFFMANN - EITLE, Patent- und Rechtsanwaelte Arabellastrasse 4, 81925  
Muenchen, DE  
AGN 101511  
OS BEPA2000001 EP 0968990 A2 0006  
SO Wila-EPZ-2000-H01-T1a  
DT Patent  
LA Anmeldung in Englisch; Veroeffentlichung in Englisch  
DS R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE;  
R IT; R LI; R LU; R MC; R NL; R PT; R SE; R AL; R LT; R LV; R MK; R RO;  
R SI  
PIT EPA2 EUROPAEISCHE PATENTANMELDUNG  
PI EP 968990 A2 20000105  
OD 20000105  
AI EP 1999-118063 19990923  
PRAI JP 1999-67714 19990315  
ABEN The invention relates to a method for manufacturing a  
fluoroalcohol represented by formula (1) <chemical formula>  
(wherein R.sup1. represents F or CF.sub3., when n=1; R.sup1. represents  
F, when n=2) by reacting methanol with  
tetrafluoroethylene or hexafluoropropylene in the presence of a  
free radical generator, wherein the method comprises the steps of:  
feeding a reaction mixture into a distillation column; distilling off  
methanol from the top of the distillation column; withdrawing a

bottom fraction comprising the fluoroalcohol from the bottom of the distillation column; removing a fraction comprising water and HF from the distillation column by side cut; feeding methanol from the top of the distillation column back into a reactor for recycling; and purifying the bottom fraction to recover the fluoroalcohol represented by formula (1). <image> <image>

L2 ANSWER 153 OF 192 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN  
 AN 2000-099357 [09] WPIDS  
 CR 2002-407105 [44]  
 DNN N2000-076720 DNC C2000-029016  
 TI Preparation of fluoroalcohols for use as solvents in information recording media adapted for laser reading and/or writing.  
 DC E16 L03 P75 P84 T03 W04  
 IN TAKAKI, S; YASUHARA, T; YOKOYAMA, Y; YOSHIZAWA, T  
 PA (DAIK) DAIKIN IND LTD; (DAIK) DAIKIN KOGYO KK  
 CYC 36  
 PI EP 967193 A2 19991229 (200009)\* EN 6  
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
 RO SE SI  
 JP 3029618 B1 20000404 (200022) 5  
 AU 9944844 A 20000629 (200037)  
 CZ 9903105 A3 20000712 (200040)  
 CA 2282063 A1 20000628 (200045) EN  
 AU 724446 B 20000921 (200050)  
 BR 9904405 A 20000919 (200050)  
 JP 2000247916 A 20000912 (200051) 6  
 CN 1258669 A 20000705 (200052)  
 NZ 337609 A 20000929 (200060)  
 SG 76643 A1 20001121 (200067)  
 KR 2000047569 A 20000725 (200115)  
 US 6392105 B1 20020521 (200239)  
 KR 2001112910 A 20011222 (200240)  
 KR 330273 B 20020401 (200266)  
 EP 967193 B1 20021127 (200279) EN  
 R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT RO SE  
 DE 69904117 E 20030109 (200312)  
 RU 2198160 C2 20030210 (200324)  
 ES 2186286 T3 20030501 (200341)  
 KR 386834 B 20030609 (200367)  
 CA 2282063 C 20031118 (200382) EN  
 ADT EP 967193 A2 EP 1999-117436 19990908; JP 3029618 B1 JP 1999-48446 19990225; AU 9944844 A AU 1999-44844 19990830; CZ 9903105 A3 CZ 1999-3105 19990831; CA 2282063 A1 CA 1999-2282063 19990908; AU 724446 B AU 1999-44844 19990830; BR 9904405 A BR 1999-4405 19990929; JP 2000247916 A JP 1999-48446 19990225; CN 1258669 A CN 1999-119085 19990914; NZ 337609 A NZ 1999-337609 19990902; SG 76643 A1 SG 1999-6653 19991228; KR 2000047569 A KR 1999-47371 19991029; US 6392105 B1 US 1999-388384 19990901; KR 2001112910 A KR 2001-77064 20011206; KR 330273 B KR 1999-47371 19991029; EP 967193 B1 EP 1999-117436 19990908, Related to EP 2001-124226 19990908; DE 69904117 E DE 1999-604117 19990908, EP 1999-117436 19990908; RU 2198160 C2 RU 1999-127444 19991227; ES 2186286 T3 EP 1999-117436 19990908; KR 386834 B Div ex KR 1999-47371 19991029, KR 2001-77064 20011206; CA 2282063 C CA 1999-2282063 19990908  
 FDT AU 724446 B Previous Publ. AU 9944844; KR 330273 B Previous Publ. KR 2000047569; EP 967193 B1 Related to EP 1179521; DE 69904117 E Based on EP 967193; ES 2186286 T3 Based on EP 967193; KR 386834 B Previous Publ. KR 2001112910  
 PRAI JP 1999-48446 19990225; JP 1998-373972 19981228  
 AB EP 967193 A UPAB: 20031223  
 NOVELTY - A fluoroalcohol is prepared by reacting



methanol with tetrafluoroethylene or hexafluoropropylene in the presence of a free radical source and distilling in the presence of base or after contact with base.

DETAILED DESCRIPTION - Preparation of a fluoroalcohol of formula (I) comprises reacting methanol with tetrafluoroethylene or hexafluoropropylene in the presence of a free radical source and distilling the reaction mixture, either in the presence of a base or after contacting with a base.

$H(CFR_1CF_2)_nCH_2OH$  (I)

$R_1 = F$  or  $CF_3$ ; and

$n = 1$ ; or

$R_1 = F$ ; and

$n = 2$ .

An INDEPENDENT CLAIM is included for fluoroalcohol (I) which has an evaporation residue of no more than 25 ppm.

USE - The fluoroalcohol (I) is useful as a component of recording layers in information recording media adapted for laser writing or reading (claimed). The recording medium may be an optical disk such as CD-R or DVD-R. The fluoroalcohol acts as a dye solvent.

ADVANTAGE - The process provides a product which has a very low content of impurities such as evaporation residue and UV-absorbing substances.

Dwg.0/0

L2 ANSWER 182 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 22  
 AN 01411167 IFIPAT;IFIUDB;IFICDB  
 TI TELOMERIZATION OF TETRAFLUOROETHYLENE; WITH METHANOL  
 INF Fujii, Tuneo, Osaka, JP  
 Fujita, Yorio, Osaka, JP  
 Ohmori, Akira, Osaka, JP  
 Satokawa, Takaomi, Osaka, JP  
 IN FUJII TUNEO (JP); FUJITA YORIO (JP); OHMORI AKIRA (JP); SATOKAWA TAKAOMI (JP)  
 PAF Daikin Kogyo Co, Ltd, Osaka, JP  
 PA DAIKIN KOGYO CO LTD JP (1197)  
 EXNAM Lone, Werren B  
 AG Stevens, Davis, Miller & Mosher  
 PI US 4346250 A 19820824 (CITED IN 011 LATER PATENTS)  
 AI US 1980-203453 19801103  
 XPD 24 Aug 1999  
 RLI US 1979-31843 19790420 CONTINUATION-IN-PART ABANDONED  
 PRAI JP 1978-48045 19780421  
 FI US 4346250 19820824  
 DT Utility  
 FS CHEMICAL  
 GRANTED  
 OS CA 97:197835  
 MRN 003839 MFN: 0954  
 CLMN 7  
 GI 2 Drawing Sheet(s), 3 Figure(s).  
 AB Fluoroalkanols of the formula:  $H(CF_2CF_2)_nCH_2OH$  (I) are prepared by telomerization of tetrafluoroethylene with methanol in a batch system. The reaction is carried out while introducing tetrafluoroethylene continuously into the reaction system. The production of fluoroalkanols of the formula (I) wherein  $n$  is an integer of 5 or more is suppressed and the production of fluoroalkanols of the formula (I) wherein  $n$  is an integer of 4 or less is enhanced.

L2 ANSWER 184 OF 192 JAPIO (C) 2004 JPO on STN  
 AN 1979-154707 JAPIO  
 TI TELOMERIZATION OF TETRAFLUOROETHYLENE  
 IN SATOKAWA TAKAOMI; FUJII TSUNEO; OMORI AKIRA; FUJITA YORIO

PA DAIKIN IND LTD  
PI JP 54154707 A 19791206 Showa  
AI JP 1978-48045 (JP53048045 Showa) 19780421  
PRAI JP 1978-48045 19780421  
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1979  
AB PURPOSE: To obtain a low-molecular weight telomer which is an intermediate for pharmaceuticals and pesticides safely in high yield in preparing a fluoroalkanol through telomerization of tetrafluoroethylene (TFE), by adding TFE to the reaction system continuously.  
CONSTITUTION: TFE is continuously added to methanol containing a polymerization initiator and subjected to telomerization at a partial pressure ratio of TFE to the methanol of  $30:1 \sim 1:5$ , a reaction temperature of  $25 \sim 150^\circ\text{C}$ , and the total pressure of  $1 \sim 12 \text{ kg/cm}^2$  gauge to give a telomer mixture comprising mainly a compound of the formula ( $n$  is  $\leq 4$ ). An acid acceptor, e.g. NaOH, is preferably added to the reaction mixture, and its amount is in the range of  $4 \times 10^{-4} \sim 4 \times 10^{-3}$  mol per mol of the methanol.  
EFFECT: An extremely small amount of the by-product compound of the formula ( $n$  is  $\geq 5$ ) which has no industrial value. The reaction under low pressure permits easy control of reaction rates and eliminates the possibility of explosion.  
COPYRIGHT: (C)1979,JPO&Japio

L2 ANSWER 190 OF 192 JAPIO (C) 2004 JPO on STN  
AN 2002-069021 JAPIO  
TI METHOD FOR PRODUCING FLUORINE-CONTAINING ALCOHOL  
IN YOSHIZAWA TORU; TAKAGI SHOJI  
PA DAIKIN IND LTD  
PI JP 2002069021 A 20020308 Heisei  
AI JP 2000-257853 (JP2000257853 Heisei) 20000828  
PRAI JP 2000-257853 20000828  
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2002  
AB PROBLEM TO BE SOLVED: To provide a method capable of producing a high purity fluorine- containing alcohol with less t-butanol contents.  
SOLUTION: This method for producing the fluorine-containing alcohol expressed by the following formula (1):  $\text{H}(\text{CF}_2\text{CF}_2)_n\text{CH}_2\text{OH}$  in the presence of an organic peroxide generating t-butanol by its decomposition and an acid- accepting agent comprises the steps of (i) reacting tetrafluoroethylene with methanol; (ii) removing the reaction product of the acid-accepting agent and the unreacted acid-accepting agent from the obtained crude reaction product; and (iii) heating the crude reaction product treated with the above (ii) process under an acidic condition for separating the fluorine -containing alcohol of the formula (1).  
COPYRIGHT: (C)2002,JPO

L2 ANSWER 191 OF 192 JAPIO (C) 2004 JPO on STN  
AN 2002-069020 JAPIO  
TI METHOD FOR PRODUCING FLUOROALCOHOL  
IN OKAMOTO SHUICHI  
PA ASAHI GLASS CO LTD  
PI JP 2002069020 A 20020308 Heisei  
AI JP 2000-254433 (JP2000254433 Heisei) 20000824  
PRAI JP 2000-254433 20000824  
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2002  
AB PROBLEM TO BE SOLVED: To obtain a high-purity fluoroalcohol in good purification yield.  
SOLUTION: In this method for producing the fluoroalcohol by reacting methanol with tetrafluoroethylene or

10/028,827

hexafluoropropylene in the presence of an alkyl peroxide, liquid after finishing the reaction is distilled in the presence of water and HF to separate the liquid into a fraction containing an alcohol derived from the peroxide and a bottom liquid containing the above fluoroalcohol and then, the bottom liquid is purified to recover the fluoroalcohol.

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L2 ANSWER 192 OF 192 JAPIO (C) 2004 JPO on STN  
AN 2000-327607 JAPIO  
TI PRODUCTION OF FLUOROALCOHOL  
IN YAMAGUCHI FUMIHIKO; TAKAGI SHOJI; YOSHIZAWA TORU; OGURA HIDETSUGU; KATSUBE TOSHIYUKI  
PA DAIKIN IND LTD  
PI JP 2000327607 A 20001128 Heisei  
AI JP 1999-251745 (JP11251745 Heisei) 19990906  
PRAI JP 1999-68932 19990315  
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2000  
AB PROBLEM TO BE SOLVED: To obtain a fluoroalcohol suitable for producing information recording media and photoreceptors for films by reaction between methanol and tetrafluoroethylene or the like in the presence of a reaction initiator followed by removing the undecomposed reaction initiator from the system and then carrying out a distillation.  
SOLUTION: This fluoroalcohol of the formula  $H(CFR_1CF_2)_nCH_2OH$  (n is 1 or 2, when n=1, R1 is F or CF3, or when n=2, R1 is F) is obtained by reaction between methanol and tetrafluoroethylene or hexafluoropropylene in the presence of a reaction initiator (e.g. di-t-butyl peroxide) followed by removing the undecomposed reaction initiator in the resultant reaction liquid and then carrying out a distillation; wherein removal of the undecomposed reaction initiator is accomplished preferably by decomposing it through heating the reaction liquid, contacting the liquid with an acid catalyst, base or reducing agent, irradiating the liquid with ultraviolet rays, or the like.  
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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	253.26	253.47
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
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CA SUBSCRIBER PRICE	-2.80	-2.80

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